Ore-Mining Industry (Cont.)

SOV/5474

of Technical Sciences (deceased); Part XII by G.M. Malakhov, Professor, Doctor of Technical Sciences; and Part XIV by V.N. Voronin, Doctor of Technical Sciences (deceased), and L.D. Voronina, Candidate of Technical Sciences. No personalities are mentioned. Each part of the handbook is accompanied by references, all Soviet.

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Mikolai Nikolaevich Patrikeev; an obituary. Gor.zhur. no.6:76 Je 160. (MIRA 14:2) (Patrikeev, Nikolai Nikolaevich, 1890-1960)

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Further technical progress in ore dressing in ferrous metallurgy.

Gor. zhur no.4:3-7 Ap '63. (MIRA 16:4)

Gor. zhur no.4:3-7 Ap 163. (Mining engineering)

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(Ore dressing)

TITOV, Viktor Dmitriyevich; ONISHCHENKO, Anna Ivanovna; SOSEDOV, O.O., retsenzent; KAPLUNOV, R.P., otv. red.; YEROKHIN, G.M., red.izd-va; LOMILINA, L.N., tekhn. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Underground method of iron-ore mining] Razrabotka rud chernykh metallov podzemnym sposobom. Moskva, Gosgortekhizdat, 1963. 181 p. (MIRA 16:12) (Iron mines and mining)

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SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

是是是大型的现在,这一种,我们就是这个人的主义,但是是这个人的,但是不是是一个人,也不是是一个人,也不是一个人,也不是一个人,也不是一个人,也不是一个人,也不是 第一个人,也是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一

KAPLUNOV. Refeil Sautvlovich, kandidat tekhnicheskikh nauk, dotsent;

BIEERG, N.Ya., kandidat tekhnicheskikh nauk, dotsent, redakter;

BALANDIN, A.F., redakter isdatel stva; KORSAKOV, V.S., doktor
tekhnicheskikh nauk, retsenzent; UVAROVA, A.F., tekhnicheskiy
redaktor.

[Accuracy of controlling equipment] Tochnost kontrol nykh prispesoblenii. Moskva, Ges.nauchno-tekhn.izd-ve mashinostroit.lit-ry,
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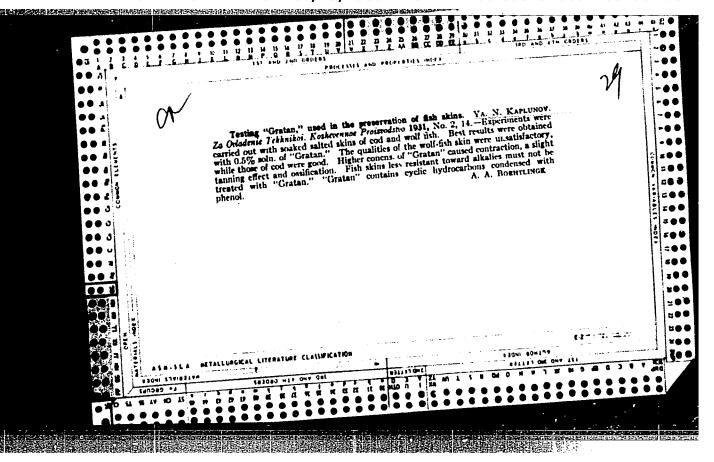
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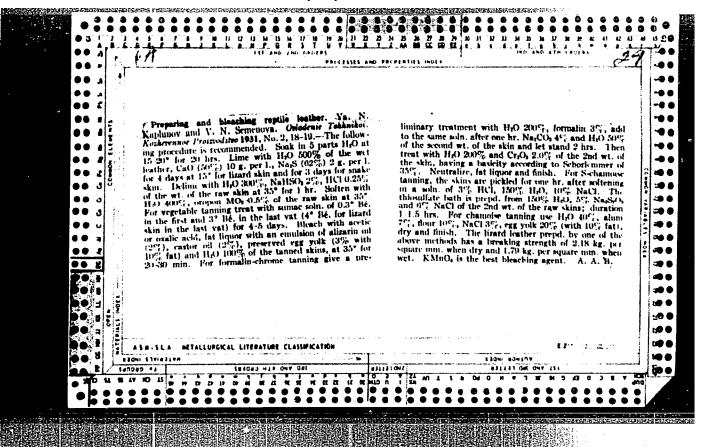
(Chernigov Province—Construction industry)

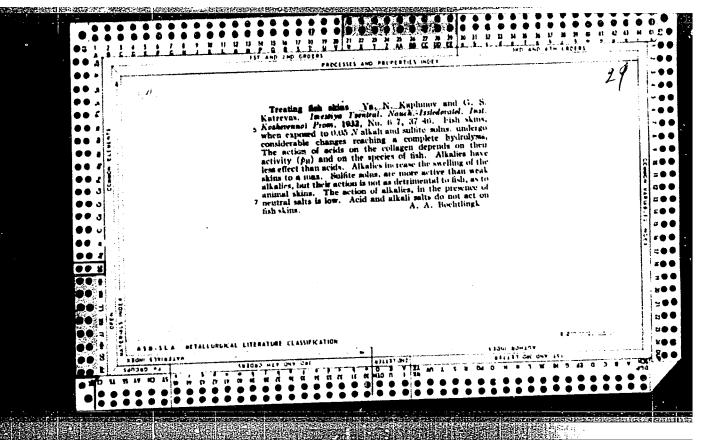
GLADKAYA, V.F., inzh.; KOZHEVNIKOVA, I.M., inzh.; LOZHESHNIK, V.K., inzh.; KAPLUNOV, S.Z., inzh.

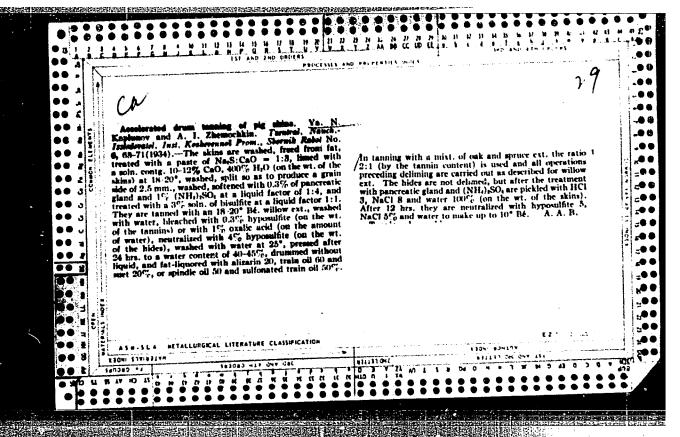
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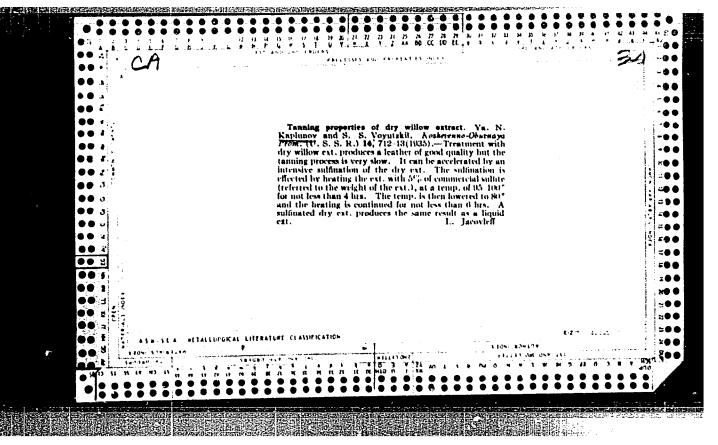
1. Ukrainskiy nauchno-issledovatel'skiy institut maslozhirovoy promyshlennosti (for Gladkaya, Kozhevnikova). 2. Kuybyshevskiy zhirovoy kombinat (for Lozheshnik). 3. Kitoboynaya flotiliya "Slava" (for Kaplunov).

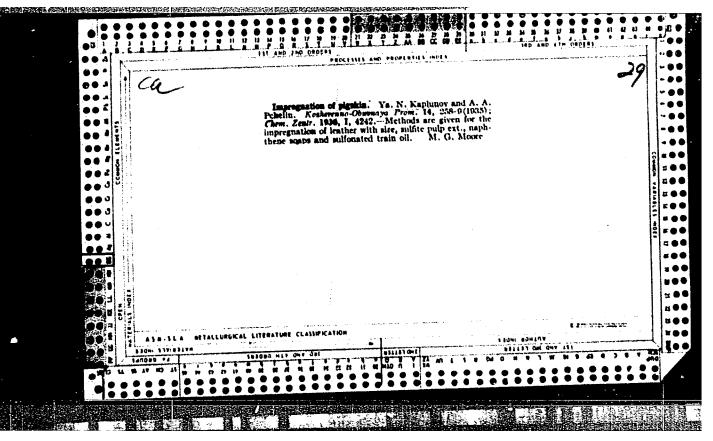


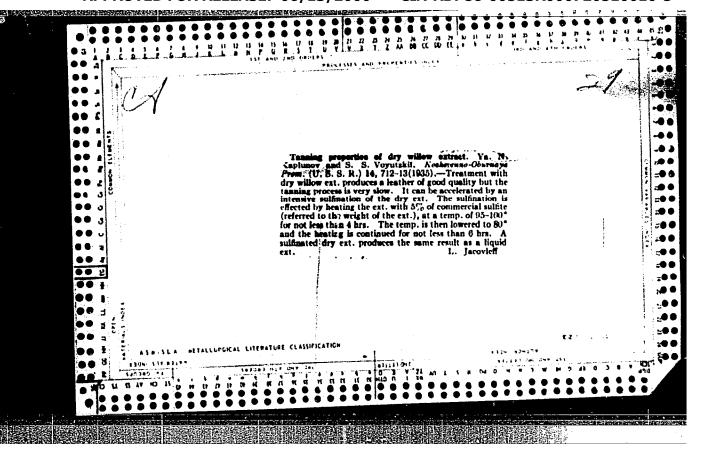


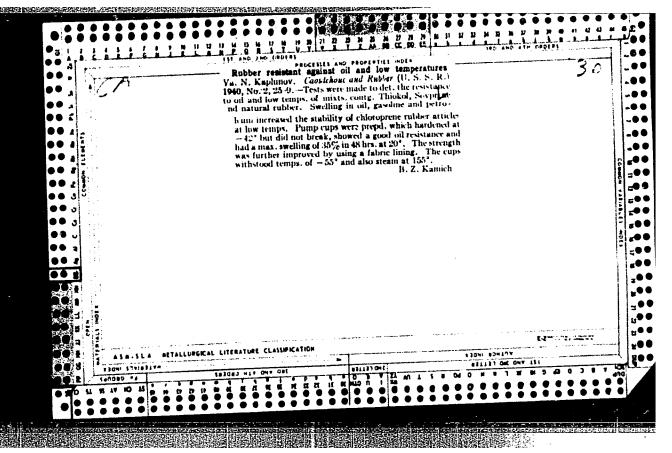


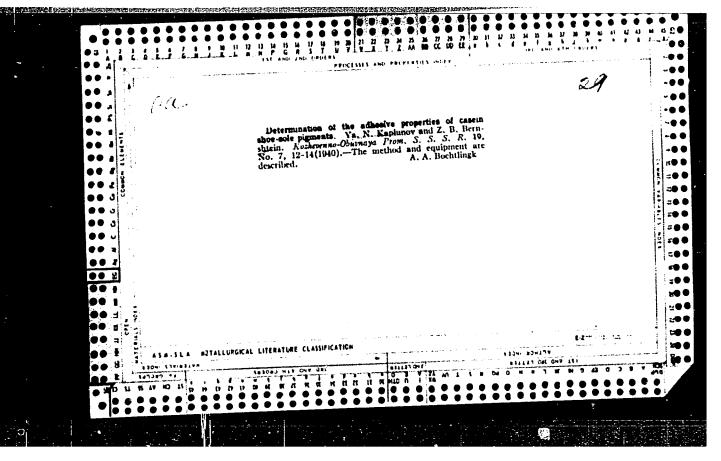


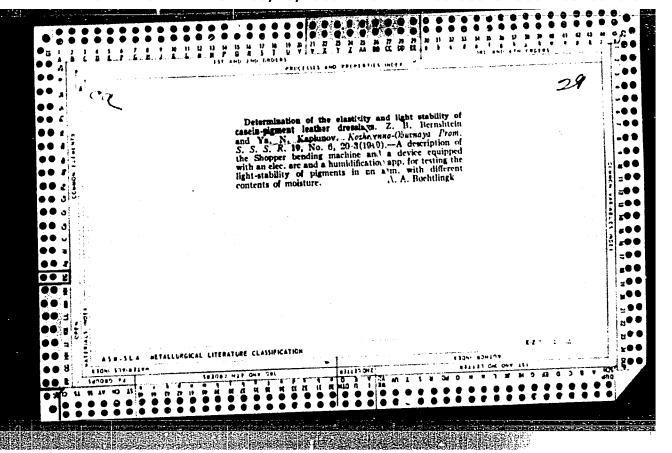










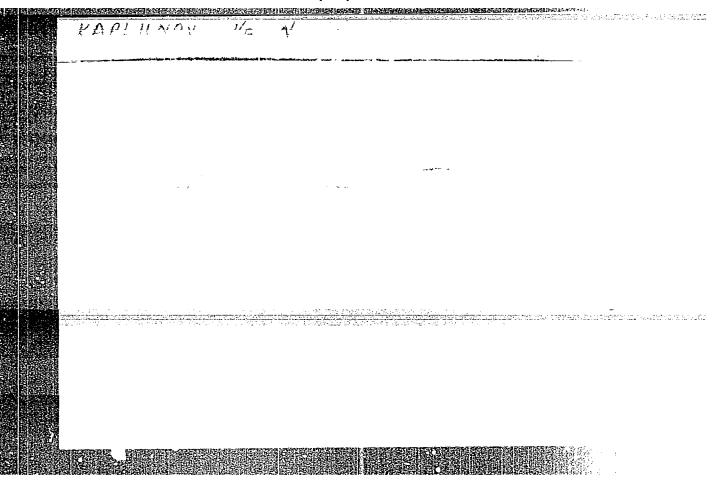


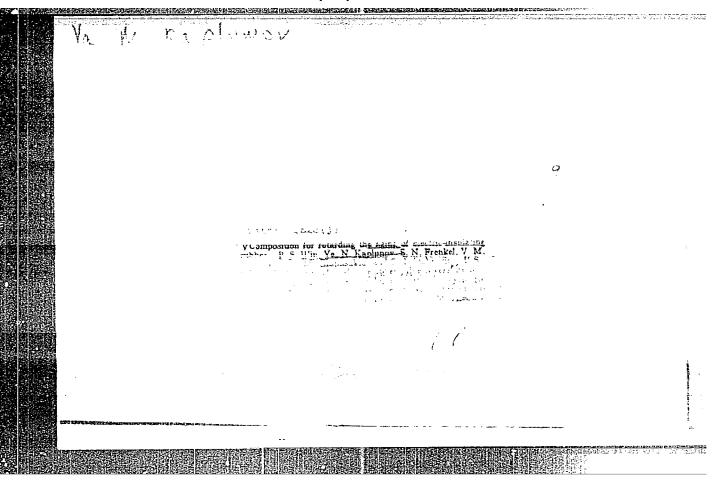
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Technology of the reclaiming of rubber, Moskva, Gizlegprom, 1951.

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SOV/138-58-10-6/10

AUTHORS:

Gul', V.Ya;; Vil'nits, S. A; Gel'perin, N. I; Il'in, N.S; Kaplunov, Ya. N; Tsarskiy, L. N. and Krasikova, G. Z.

TITLE:

Investigation of the Possibility of Pulverizing Chilled Rubber (Razrabotka sposoba izmel cheniya okhlazhdennykh

rezin)

PERIODICAL:

Kauchuk i Rezina, 1958, Nr 10, pp 22 - 28 (USSR)

ABSTRACT:

Much rubber scrap is not re-used because of the difficulty of pulverizing the material. This difficulty can be overcome by chilling the rubber. The authors first review the changes in physical and mechanical properties of rubber at low temperature. Fig.1 shows maximum speed of rupture (mm/sec) against temperature for a vulcanized mixture of SKB and natural rubber. Fig.2 shows the same for SKB (Butyl) rubber. Each figure shows curves for three different rates of deformation. The maximum speed of rupture is that which occurs immediately before the specimen parts. The re-orientation of material at the point where rupture commences was studied by scribing a line across the specimens, and comparing the thickness of the line where rupture depart of the stretched specimen. In Fig.4 these relative thicknesses are plot-

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SOV/138-58-10-6/10

Investigation of the Possibility of Pulverizing Chilled Rubber

ted against time for specimens of SKB and natural rubber at four different temperatures. The specimens were deformed at a rate of 500 mm/min. At -53°C no re-orientation at the rupture point occurs. Fig. 5 shows stress versus relative elongation for the same rubber mix at different temperatures. Fig.6a shows the relative elongation versus temperature, and Fig.6b the stress versus temperature at the moment of rupture, in each case for three different rates of deformation. In Fig. 7 the work of deformation (kg/cm³) is plotted against temperature for SKB-50 and the same in Fig. 8 for SKB-50 plus natural rubber. By comparing Figs. 2, 6 and 7 one sees that the temperature for maximum work of deformation to rupture corresponds to that for minimum speed of rupture and for maximum relative elongation at rupture. At low temperatures the low mobility of the molecular structure prevents reorientation at the point of rupture as is seen in Fig. 4; the resistance to rupture and relative elongation decrease and the speed of rupture increases. Fig.9 shows stress versus relative elongation for samples of rubber and fabric, cut from a tyre casing, at three different rates of deformation for four temperatures. These follow

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SOV/138-58-10-6/10 Investigation of the Possibility of Pulverizing Chilled Rubber

the same form as the plain rubber specimens in Fig. 5. In order to obtain a brittle state when pulverizing rubber and fabric materials the temperature must be lowered and the speed of pulverization or rupture must The apparatus shown in Fig. 10 was conbe increased. structed to determine optimum speed of deformation for pulverization. Specimens 10 - 20 mm wide and 1 - 6 mm thick are clamped to the periphery of a 200 mm disc which can be rotated at various speeds. The disc runs in an insulated tank. The specimens strike against a pin mounted on a spring, so that the force acting on the pin can be measured dynamometrically, and the energy of deformation in fracturing the specimens can be calculated. Optimum speed was found to be in the region of 3000 r.p.m. From the parameters established, the hammer-mill type of pulverizer, shown in Fig. 11, was constructed. The gap between the hammers and the saw-toothed periphery of the mill casing is 1.5 - 2 mm. The mill runs at 3000 r.p.m. The mill is fed with pieces of rubber about 40 x 20 x 8 mm previously cooled in a dry ice and alcohol mixture. Pulverized material discharged through the grating at the

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Investigation of the Possibility of Pulverizing Chilled Rubber

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base of the mill was subjected to sieve analysis. Energy input was measured by a recording wattmeter. Table 1 shows results with this pulverizer for various rubber and rubber fabric materials. The size of the openings in the discharge grating was either 5 mm or 2 mm. Material was cooled to temperatures of -66°, -60° and -50°C. Time and k.w.h. to pulverize 400 gramme quantities of material are given, and the specific energy requirement in k.w.h. per metric ton of material is given in the last column. Table 2 gives the sieve analysis for the various samples for 5 mm and for 2 mm openings in the discharge grating. To complete the calculation for energy requirements, the power in k.w.h. required to cool one ton of material to temperatures between 5°C and -55°C are given. These calculations are based on an initial temperature of 20°C., specific heat of material 0.5 c.cal/kg°C, and 59.5% cooling efficiency from a Freon 12-refrigeration circuit as

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Investigation of the Possibility of Pulverizing Chilled Bubber.

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in Fig.12 with a further 20% loss to air allowed for. There are 12 Figures, 2 Tables and 7 Soviet References

ASSOCIATION: Moskovskiy institut tonkoy knimicheskov tekhnologii im. M. V. Lomonosova (Moscow Institue of Precision Chemical Technology imeni M.V. Lomonosov)

Card 5/5

5(1,3) AUTHORS:

Gul', V. Ye., Mayzel', N. S., SOV/153-2-2-25/31 Frenkel', S. N., Il'in, N. S., Kaplunov, Ya. N., Khmunin,

S. F., Voronkov, Yu. F.

TITLE:

Examination of the Use of High-molecular Substances for the Isolation of Current Conducting Rails (Issledovaniye primeneniya vysokomolekulyarnykh veshchestv dlya izolyat-

sii shin tokoprovodov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 2, pp 274-279 (USSR)

ABSTRACT:

A number of demands is made on the isolation mentioned in the title, which could not be satisfied for a long time. In most cases a material perfect in every way proved to be unsatisfactory with regard to one single characteristic, so that the rails mentioned in the title could not be isolated. A uniform point-of-view concerning the electric break-down of high-molecular compounds is lacking at present. The authors presume that the electric field strength at which a high-molecular compound breaks down, is mainly determined by peculiarities of the chemical structure of the macromolecules, further by the structure of the material

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Examination of the Use of High-molecular Substances SOV/153-2-2-25/31 for the Isolation of Current Conducting Rails

based upon a high-molecular compound, as well as by a number of external factors which are connected with the application of the relevant, products. By confronting the values of a total polarization (electronic, ionic, and structural), it is possible to estimate the suitability of . a material with a certain chemical composition. The structural polarization, first established by P. P. Kobeko, is characteristic of caoutchouc and caoutchouc-like materials. The purpose of the present paper is an attempt to use highmolecular materials of such composition and mode of application which meet all demands for isolating the rail surface. Butyl-caoutchouc, butadiene-styrene-caoutchouc, siliconcaoutchouc, polyamide-resin 548, polyvinyl-butyral, polytetrafluoro-ethylene (fluoroplast), and polyethylene were used. A device was set up for testing the resistance to electric breakdown. All requirements of GOST-864-41 were satisfied during the tests. Only the test voltage was increased to 3,500-5,000 v instead of 2,000 v. First of all the methods of application of the isolation-coating to the sample

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Examination of the Use of High-molecular Substances SOV/153-2-2-25/31 for the Isolation of Current Conducting Rails

were discussed. All types of coatings were tested for heat-, frost-, light-, and ozone-resistance, and for vibration. Tables 1 and 2 show that the isolation on the basis of polymer substances, applied in molten state on a heated metal surface, differs from other isolation methods with polymers of increased electric strength. The authors propose a rational method of isolation for the conductor-rail, that is the application of molten and sprayed polyethylene particles on a heated rail surface. There are 2 tables.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova; Kafedra fiziki (Moscow Institute for Fine Chemical Technology imeni M. V. Lomonosov; Chair of Physics)

SUBMITTED:

December 16, 1957

Card 3/3

·SOV/138-59-3-8/16

AUTHORS: Shokhin, I. A. and Kaplunov, Ya. N.

TITLE: Two-Stage Preparation of Homogeneous Regenerated Rubber Mixtures in a High Speed Rubber Mixer (Metod dvukhstadiynogo izgotovleniya odnorodnykh rezino-regeneratnykh smesey v skorostnom rezinosmesitele)

PERIODICAL: Kauchuk i rezina, 1959, Nr 3, pp 33 - 38 (USSR)

ABSTRACT: The possibility of preparing homogeneous regenerated rubber mixtures in a covered rubber mixer by changing the conditions of mixing were investigated (part of the experiments were carried out by O.L.Glushak). It was assumed that the non-homogeneity of rubber mixtures containing regenerated rubber is due to the incorrect mixing of the components. Experiments were carried out on mixtures of tyre rubber prepared from SKS-30A and SKB-NK mixtures; their composition is given in Table 1. Regenerated rubber prepared from tyre rubbers was added to this mixture (Table 2) in quantities of 0, 15, 30 and 45% (Table 3). The rubber-regenerated rubber mixtures were prepared in a 2 litre laboratory mixer. The speed of the rotor of the mixer was 63 rev/min, the friction 1: 1.19, and a pressure of 6 atm was applied to the

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SOV/138-59-3-8/16

Two-Stage Preparation of Homogeneous Regenerated Rubber Mixtures in a High-Speed Rubber Mixer

plunger. Tyre mixtures based on SKS-30A and regenerated rubber R-33 were prepared by a one-stage method. The composition of four different mixtures is given in Table 4. Three mixtures based on SKS-30A rubbers containing carbon black and master batches prepared from these mixtures, having similar plastic and elastic properties as the regenerated rubber R-33, were tested (Table 6). The composition of tyre rubbers prepared from these mixtures is shown in Table 7 and identical experiments were carried out on rubber mixtures based on SKB-NK rubbers. The physical and mechanical characteristics of all tyre rubber mixtures, with varying quantities of added regenerated rubber and various methods of addition, are listed in Table 8. The mixtures tend to become more rigid during the two-stage process than during the one-stage process. This is probably due to the better distribution of the

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Two-Stage Preparation of Homogenous Regenerated Rubber Mixtures in a High-Speed Rubber Mixer

> regenerated rubber in the mixture. Micro-photographs confirm that the two-stage process of mixing produces more homogenous distribution of the regenerated rubber in tyre rubbers. The two-stage process increases the workability during repeated deformation; this is obviously of great importance when considering the quality of car tyres. the effect of the addition of various quantities of regenerated rubber R-33 and R-33NB and the method of introducing them into the mixtures affects the quality of tyre rubbers (Figures 1 and 2). The two-stage method is most suitable when the rigidity of the carbon-black-containing master batch is considerably higher than the rigidity of the used regenerated rubber. There are 2 figures, 8 tables and 6 Soviet references.

Card 3/3

\$/063/62/007/002/010/014 A057/A126

AUTHORS:

Kaplunov, Ya.N., Mayzel', N.S.

TITLE:

Conference on current conducting polymer materials

PERIODICAL:

Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D.I.

Mendeleyeva, v. 7, no. 2, 1962, 221 - 222

The conference was held in October 1961 and was organized by the kafedra khimii i fiziki polimerov i protsessov ikh pererabotki (Chair of Chemistry and Physics of Polymers and their Processing) and the local organization VKhO imeni Mendeleyeva Moskovskogo instituta tonkoy khimicheskoy tekhnologii imeni Lomonosova (Local Organization of the All-Union Chemical Society imeni Mendeleyeva of the Moscow Institute of Fine Chemical Technology imeni Lomonosov). In the conference participated representatives of the VNIIPIK, TSNIISK, TSNIIMPS, NIIShP, NIIR, Voyenno-inzhenernaya akademiya im. Kuybysheva (Military-Engineering Academy imeni Kuybyshev), Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the AS USSR), Institut narodnogo khozyaystva im. Plekhanova (Institute of National Economy imeni Plekhanov) and others. The following reports were given: N.S. Mayzel', and V.Ye. Gul',

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5"

Conference on current....

S/063/62/007/002/010/014 AU57/A126

"Investigation of the conductivity of polymer base-systems"; Ya.M. Parnas, "Investigation of conducting polymers in the high-frequency field"; N.A. Makarov (Institute of Automation and Telemechanics AS USSR), "Application of conducting plastics for galvanoplastics"; I.A. Ostryakov (VNIIPIK), "Current conducting and semi-conducting polymer materials"; L.N. Tsarskiy, Ya.N. Kaplunov, and V.Ye. Gul', "Low-temperature heating elements on polymer base". These authors also organized industrial production of such elements at the Kurskiy zavod rezinotekhnicheskikh izdeliy (Kursk plant of technical rubber articles) which elements were installed to heat the hall of the Narva GES. S.S. Iogansen reported on "The use of conducting polymers in medicine and biology"; V.K. Katusova read her report "Perspectives for the application of conducting polymer materials in agriculture". In spite of the fact that this conference was the first in this field, the importance of these materials for the national economy was demonstrated and the following directions for further investigations given: 1. Explanation of the mechanism of conductivity in these materials; 2. Determination of the relation between the chemical nature of the polymer and the conducting properties; 3. Development of new fields of application of these materials. An Organization Committee with the members Professor V.Ye. Gul', Ya.M. Parnas, and I.A. Ostryakov was elected at the conference.

Card 2/2

KAPLUNOV, Ya.N.; MAYZEL', N.S.

Conference on conductive polymer materials. Zhur.VKHO 7 no.2: 221-222 '62. (MIRA 15:4) (Polymers—Electric properties)

8/138/62/000/012/006/010 A051/A126

AUTHORS:

Babitskiy, B. L. Vinitskiy, L. Ye., Kaplunov, Ya. N.

TITLE:

Dielectric properties of reclaimed rubber and its vulcanizates

PERIODICAL: Kauchuk i rezina, no. 12, 1962, 18 - 22

Investigation results are submitted of the dielectric properties of reclaimed rubber and its vulcanizates . The possibilities for improving these properties are discussed. Reclaimed serial rubbers produced by reprocessing domestic tires were found to be superior to tire rubbers in their electro-insulating properties (GOST 6433-52). The specific volumetric electrical resistance of the reclaimed rubber is equal to that of the "pure" rubbers. The high electroinsulating properties of reclaimed rubber are also noted in its vulcanizates. The latter are inferior, however, in their electric spark-over resistance and the dielectric loss value. Both, filled and non-filled reclaimed vulcanizates are not inferior to electro-insulating "pure" rubbers in their mechanical characteristics, satisfying the GOST 2068-61 conditions for insulating rubber of electric cables, lines and cords. The electric tensility can be raised, while maintaining a high specific electrical resistance, by introducing a specially selected

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APPROVED FOR RELEASE: 06/13/2000

BABITSKIY, B.L.; VINITSKIY, L.Ye.; DROZDOVSKIY, V.F.; DYUBKO, L.D.; KAPLUNOV, Ya.N.; MELENT'YEVA, Z.G.; SHOKHIN, I.A.; Prinimali uchastiye: ZHIL'TSOVA, A.A.; LEVIT, R.G.; YAKOVLEV, D.A.

Effect of filling reclaimed rubber on the dielectrical properties of the reclaimed product. Kauch. i rez. 24 no.5:22-25 My 165. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

KAPLUNOV, Zinoviy Vladimirovich, inzhener; LIUBOSH, A.A., inzhener, nauchnyy redaktor; KAPLAN, M.Ya., redaktor izdatel stva; PUL KINA, Ye.A., tekhnicheskiy redaktor

[Prefabricated large-sized apartment house construction elements; the experience in Leningrad apartment house building] Sbornye krupnorazmenye konstruktsii zhilykh zdanii; iz opyta zhilishchnogo stroitel'stva Leningrada. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 231 p. (MIRA 9-10) (Apartment houses)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5

KAPLUNOV, ZINOVIY VLADIMIROVICH

RAYNUS, Mliazar Samuilovich: KAPLUNOV. Zinoviv. Vladimirovich; KLYACHKO, A.L., inzhener, nauchnyy redaktor; KAPLAN, M.Ya., redaktor izdatel stva; PUL'KIMA, Ye.A., tekhnicheskiy redaktor

[Building of large panels without framework; experience in large panel construction in Leningrad] Krupnopanel'nyi beskarkasnyi dom; opyt stroitel'stva krupnopanel'nogo doma v Leningrad. Leningrad. Gos.izd-vo lit-ry po stroit. i srkhit., 1957. 101 p. (MLRA 10:9) (Leningrad-Apartment houses)

RAYNUS, E.S.; KAPLUNOV, Z.V.

Large-panel housing construction in Leningrad. Biul.tekh.inform.
3 no.1:7-11 Ja '57. (MIRA 10:10)

1.Glavnyy inzhener stroytresta No.3 (for Raynus). 2.Glavnyy inzhener byuro tipovogo proyektirovaniya instituta Lenproyekt (for Kaplunov)

(Leningrad--Apartment houses)

KAPLUNOV, Z.V., ingh.

Using prestressed reinforced concrete construction elements in building apartment bouses and public buildings. Biul.tekh.inform. 4 no.10:13-16 0 58.

(Prestressed concrete construction)

KOLKER, Ya.G., inzh.; KAPTUNOV, Z.V., inzh., red.; PYUL'KKYANEN, A.N., tekhn.red.

是是是我们是我们还是我们的,我们就是我们的人,我们就是我们的人,我们也是我们的人,我们就是我们的人,我们也没有一个人,我们也没有一个人,我们也没有一个人,也是一

[Temporary technical specifications for large reinforced concrete hollow ceiling panels (TU9/58); Temporary instruction on using large reinforced concrete hollow panels for precast ceilings (I 9/58)] Vremonnye tekhnicheskie usloviia na kurpnorazmernye zhelezobetonnye pustotelye paneli dlia perekrytii (TU 9/58); Vremennaia instruktsiia po primeneniiu krupnorazmernykh zhelezobetonnykh pustotelykh panelei dlia sbornykh perekrytii (I 9/58). Leningrad, Proektnyi kabinet in-ta Tenproekt, 1958. 25 p. (MIRA 13:4)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720510010-5

KAPLUNOVA, L.S.

FD-1512

USSR/Geophysics - Soil Science

Card 1/1

: Pub. 129-15/18

Author

: Kaplunova, L. S., and Mel'nikova, T. S.

Title

: Influence of fertilizers on the botanical composition of perennial

grasses

Periodical

: Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 6, 119-126, Sep 54

Abstract

: Since the attempt to increase the yield of grasses is now being accompanied by improvement of the quality of grass mixtures (e. g. clover, timothy, and raznotrav'ye'), the authors study the influence of introducing mineral fertilizers and of liming podzolist soils on the botanical composition of such mixtures. Their experiences show that for the maximum development of the leguminous (clover) component the lime and phosphor-calcium fertilizers are most effect in the nonchermozem belt; other soils may differ. They find that an important criterion determining the quality of hay is the foliation (leafing)

of the grasses.

Institution : Chair of Agrochemistry

Submitted

April 6, 1954

KAPLUNOVA, L.S.

Effect of fertilizers on the chemical composition of perennial grasses. Vest. Mosk. un.10 no.12:143-155 D '55. (MLRA 9:5)

1. Kafedra agrokhimii.

(Fertilizers and manures) (Grasses)

KAPIUNOVA, L.S. Liquid nitrogen fertilizer for turf-Podzolic soils. Vest.

据,我们就是我们就是这个人的,我们就是不是不是不是不是不是不是不是,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,不是不是一个人,不是一个人, 第一个人,我们就是我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

Mosk. un. Ser. biol., pochv., geol., geog. 14 no.3:101-107

1. Kafedra agrokhimii Moskovakogo universiteta. (Fertilizers and manures) (Ammonium hydroxide)

CIA-RDP86-00513R000720510010-5" APPROVED FOR RELEASE: 06/13/2000

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5

AVDONIN, N.S., professor; KAPLUNOVA, L.S., assistent

NUMBERTARIA BERTARIA ET ETTE FARTE DE TENERA EN EL ESTA EN EST

Effect of ammonia water on soils and plants. Zemledelie 8 no.2:49-55 F '60. (NIRA 13:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Plants, Effect of ammonia on) (Soil acidity)

KORENEVSKAYA, V.Ye; KAPLUNOVA, L.S.; ZVYAGINTSEV, D.G.

Studies on the recultivation of lands pitted with quarries. Nauch. dokl. vys. shkoly; biol. nauki no.4:192-195 '63 (MIRA 16:11)

1. Rekomendovana kafedrami fiziki i melioratsii pochv, agrokhimii i biologii pochv Moskovskogo gosudarstvennogo universiteta im. Lomonosova.

¥

发现更多的经验的企业的发现于多种的技术的经验是不够的证明的企业的企业的经验的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业企业

KORENEVSKAYA, V.Ye.; YAKUSHEVSKAYA, I.V.; KAPLUNOVA, L.S.; KHUDYAKOVA, Yu.A.

Soil improvement characteristics of the Palace of the Soviets Park. Vest. Mosk. un. Ser. 6: Biol., pochv. 18 no.1:45-56 Ja-F '63. (MIRA 16:12)

l. Kafedra fiziki i melioratsii pochv, kafedra pochvovedeniya, kafedra agrokhimii, i kafedra biologii pochv. Moskovskogo universiteta.

KORENEVSKAYA, V. Ye.; KAPLUNOVA, L.S.; ZVYAGINTSEV, D.G.

Agrochemical hydrophysical and microbiological characteristics of turf-Podzolic soils with removed humus horizon. Pochvovedenie no. 2:43-52 D 165 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. Submitted July 18, 1962.

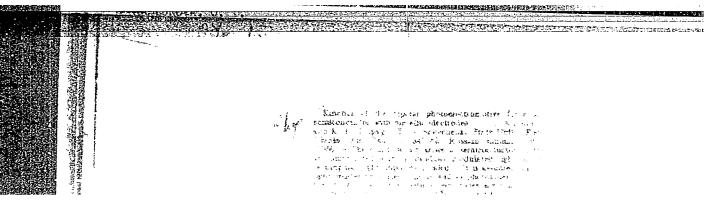
KAPLUNOVA, R.

New features. Prom.koop. 13 no.6:6-7 Je '59. (MIRA 12:9)

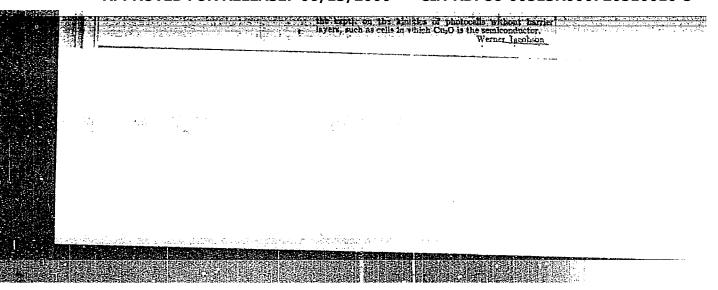
1. Zamestitel' predsedatelya pravleniya promkolkhosa im. Stalina, Moskva.

(Moscow-Clothing workers)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5



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SUBJECT

USSR / PHYSICS

CARD 1 / 2

PROTEST STATE OF THE PROTEST OF THE

PA - 1557

AUTHOR TITLE

KAPLUNOVA, E.I., TOLPYGO, K.B.

The Kinetics of the Bipolar Photoelectromotoric Force in a Semi-

gonductor with Metallic Electrodes.

Zurn. techn. fis, 26, fasc. 10, 2165-2169 (1956) PERIODICAL

Issued: 11 / 1956

Here the theory of photoelectromotoric forces occurring in such a semiconductor in the case of an unsteady illumination is developed in linear approximation. The semiconductor is assumed to be fully homogeneous, and its contacts with the metal are determined solely by effective "transparences" for holes and electrons. The theory is intended to explain the idealized form of the impulse which was attained in the course of experiments carried out by I.P.POTAPENKO, dissertation and auto-review, KGU (State university, KIEV ?) during constant illumination.

In linear approximation the theory of the photoelectromotoric force is reduced to the integration of a system of partial differential equations (which express the modifications of the numbers of electrons and holes in the zones and on local levels), and to the integration of POISSON'S equations at certain boundary conditions. For certainty's sake an electron semiconductor is investigated here and the thermal excitation of the holes is neglected. Light is assumed to be sinusoidally modulated. With rectangular light impulses (length T and height L_o) the photoelectromotoric force is obtained by the summation of "replies" for all components of FOURIER'S series.

THE WOYH, Early

SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1838

AUTHOR

DYKMAN, I.M., KAPLUNOVA, E.I., TOLPYGO, K.B.

TITLE

The Field Mass of the Polarizing Exitons in Ion Crystals.

PERIODICAL Zurn.techn.fis, <u>26</u>, fasc. 11, 2459-2466 (1956)

Issued: 12 / 1956

The present work investigates the comparatively slow motion of an exiton as a whole. In this case the velocity of the displacement of the "center of mass" of the "polarization trough" is to be understood (in the exiton- as well as in the polaron theory), which agrees with the motion of an electron and hole. It is then possible, when developing the exiton energy according to the powers of the velocity v, to content oneself with the quadratic term. The coefficient near $v^2/2$ is then the effective mass of the exiton.

The macroscepic computation of the effective mass of the exiton: Several previous works are cited, whereupon the formula for the effective mass M, which was derived by L.G.LANDAU and S.I.PEKAR (Zurn.eksp.i teor.fis, 18, 419 (1948)), is given and specialized for the spherical-symmetric states of the exitons (particularly for the lowest 1s-state). Finally, the definite formula for M is given without following the entire course of computation. Under certain conditions the value

m M $\sim 10^5$ - 10^6 electron masses is obtained for NaCl, KCl and other alkali halide crystals. However, so large effective masses of the exiton apparently do not correspond to the actual values for these materials. Therefore, the microscopic structure of the crystals must be taken into consideration in this connection.

Zurn.techn.fis, 26, fasc. 11, 2459-2466 (1956) CARD 2 / 2 PA - 1838

The microscopic computation of the effective mass of the exiton: For the computation of the displacement of the ions the potential energy of the interaction between the crystals with an electron and a hole is written down. The induction $D(\hat{r})$ occurring in this formula is computed as the induction of a multipole with the usual formulae for electrostatics. The displacements and the dipole moments of all ions can easily be determined after transition to the normal coordinates. The deformation in the distribution of the exiton charge and the modification of the forces acting upon the surrounding ions (if the displacement of the ions is less than the lattice constant), are neglected. When computing the forces brought to bear by the exitons onto the ions, the field of the exiton is considered to be the field of a system of seven charges which move with progressive uniformity within the space. The formula for the effective mass M found under these and other conditions is given.

The numerical values of the effective mass of the exiton in KCl- and NaCl-crystals, which are discussed at the end, show that the effective mass of the exiton has essentially a fieldlike character.

INSTITUTION:

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5

KAPIUNOVA, Ve. T

AUTHORS:

Kaplunova, Ye. I., and Tolpygo, K. B.

57-10-7/33

TITLE:

Note on the Temperature Dependence of the Hall-Coefficient in Semiconductors with Constant Concentration of Carriers (Temperatur= naya zavisimost' koeffitsiyenta Kholla v poluprovodnikakh s postoyan=

noy kontsentratsiyey nositeley).

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr lo, pp. 2246-2251 (USSR).

ABSTRACT:

A method is proposed to determine a number of semiconductor para= meters from the dependence of the Hall coefficient on the temperature. This method makes it possible to elaborate experimental data in a very simple manner and to compare it with theory. Just like in the former publication of the author (Tolpygo) in IFAN USSR, Nr 3, 52, 1952, here also the simplest case of an isotropic quadratic dependence of the carrier energy on the velocity in homecopolar semiconductors with great mobility is investigated, if the disppersion is essential in acoustical vibrations and in charged admixtures at the same time. Formulae for the dependence of the mobility on temperature are deduced and it is shown, that u(T)/T3/2 must be an universal function f(a) of a dimensionless quantity a = a T with

Card 1/3

an accuracy. u(T) represents the temperature dependence of the

Note on the Temperature Dependence of the Hall-Coefficient in 57-lo-7/33 Semiconductors with Constant Concentration of Carriers.

mobility. Next the equation for the Hall coefficient $R_{\mathbf{x}}$ is deduced and it is shown, that R_{χ} as a function of temperature possesses a minimum, which was not to be expected from the formula obtained in the earlier paper. This is connected with the fact, that R is represented by the ratio of two functions growing at an unequal rate. The carrier concentration N and the quantity a can be found from the shift displacement of the curve $\ln R_{\chi}$ of $\ln T^3$ with respect to the standard curve In • of In a. A combination with measurements of conductivity furnishes the mobility of the electrons as a function of temperature. It is shown, that it is possible to determine from the difference between N and the concentration of singly ionized admixtures, to what degree the admixtured donators are compensated by acceptors. The method of elaborating experimental data proposed here makes it possible to remove the indeterminacy from distinguishin between the Hall-mobility and the drift mobility and permits to de= termine the magnitude of the carrier concentration and the concentra= tion of singly ionized admixtures with much greater exactitude.

Card 2/3

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510010-5

Note on the Temperature Dependence of the Hall-Coefficient in Semiconductors with Constant Concentration of Carriers.

There are 2 figures, 1 table and 2 Slavic references.

ASSOCIATION: Institute for Physics AN Ukrainian SSR, Kiyev (Institut fiziki AN USSR, Kiyev).

SUBMITTED: March 4, 1957.

AVAILABLE: Library of Congress.

Card 3/3

AUTHORS:

Dykman, I.M. and Kaplunova, Ye.I.

SOV/109-3-8-2/18

TITIE:

The Role of Colloidal Particles in the Electric

Conductivity and Thermal Emissivity of Semi-conductor Cathodes (O roli kolloidnykh chastits v elektroprovod-

一种主义的 我是你就是我们的 医阿拉克氏征

nosti i termoemissii poluprovodnikovykh katodov)

PERIODICAL:

Radiotekhnika i Elektronika, 1958, Vol 3, Nr 8,

pp 990 - 999 (USSR)

ABSTRACT:

In 1954, Ortusi (Ref 7) put forward the hypothesis that colloidal particles of metallic barium can exist in an oxide cathode after its activation. These particles are formed in barium oxide in the vicinity of certain negatively-charged centres which attract oxygen

vacancies. The presence of colloidal particles affects the characteristics of electron conductivity and thermionic emission of the cathode and it is therefore of interest to investigate the electrical properties of a semi-conductor which has an excess of metallic atoms which can be either in the atomic or colloidal phase. It is assumed that a semi-conductor cathode contains R excess metal atoms in a unit volume and that R

is independent of temperature.

Cardl/7

The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

At a given temperature the number of atoms in the atomic phase is 1 and in the colloidal is 1 - 1. In a thermo-dynamic equilibrium, the chemical potentials of both the phases μ_1 and μ_2 should be equal. It is necessary to determine the magnitude of μ_1 or μ_2 . The metallic atoms contained in the interstices of the crystalline lattice can be regarded as a system of harmonic oscillators, whose energy is expressed by Eq.(1), where H_0 is a constant corresponding to the minimum energy, Φ_1 is a constant corresponding to the minimum energy, Φ_2 is the frequency of oscillation of an atom and Φ_2 is given by Eq.(2), where Φ_2 is the concentration of the interstices and Φ_2 is given by Eq.(3). The chemical potential Φ_1 is given by:

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SOV/109-3-8-2/18

The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

$$\mu_{\underline{1}} = \frac{\partial \mathbf{r}_{\underline{1}}}{\partial \mathbf{R}_{\underline{1}}} = kT \ln \left[e^{-H_0 kT} \left(\frac{kT}{\hbar \omega} \right)^{3} \frac{N_M - R_{\underline{1}}}{R_{\underline{1}}} \right]$$
(4)

For finding $\,\mu_{2}$, a colloidal particle is regarded as a part of the crystal lattice of the metal. The free energy of the particle can be described by Eq.(5). If it is assumed that the number of oscillation branches is three, Eq.(5) can be written as Eq.(7), from which it follows that μ_2 is given by Eq.(8). By comparing μ_1 and μ_2 , the equilibrium concentration of the atomic metal is expressed by:

$$R_{1} = \frac{N_{M}}{1 + \gamma e^{\delta/kT}}$$
 (9),

where δ and γ are given by Eqs.(10). For the case of Card3/7

SOV/109-3-8-2/18
The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

anionic vacancies in the cathode, the free energy is expressed by Eq.(11), where p is the number of colloidal particles in the interstices of the lattice and Ψ_0 is the free energy of an ideal lattice which can be expressed by Eq.(12). If each colloidal particle loses s atoms by evaporation, its free energy is expressed by Eq. (14). On the other hand, the free energy of a lattice with sp anionic vacancies is expressed by Eq. (15). The full, free energy of the system is given by Eq. (17). From the condition of minimum, free energy, it follows that the number of vacancies sp is expressed by Eq.(18), where Y₁ is defined by Eq.(19). Comparison of Eqs.(9) and (18) shows that both the types of the barium distribution in the cathode lead to the same distribution law for the atomic If the cathode contains both the atomic and particles. colloidal phases simultaneously, each of these can act as an electron donor. In the state of equilibrium, the system can be characterised by a common chemical potential This can be found from the condition of the neutrality μ. Card4/7 of the system, which is expressed by:

The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

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$$n_{-} = Q_{-}e^{\mu | kT} = \frac{R_{1} v_{e}^{kT}}{\frac{\varepsilon - \mu}{1 + v_{e}^{kT}}} + \frac{q}{e_{o}} p \qquad (20)$$

where Q_ is the number of states in a zone, e_ is an elementary charge, γ is a multiplier functionally related to the valency of the donors and q is a positive charge on a colloidal particle. The charge q can be expressed by Eq.(21), where r is the radius of a colloidal particle and μ_0 is the Fermi level of a noncharged particle. From Eqs.(20) and (21), the final expression for μ is in the form of Eq.(22). The formula was used to carry out some numerical calculations and to plot a number of graphs. The values of μ for various δ , ε and μ_0 are shown in the table on p 995, while the

Card5/7

The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

curves illustrating temperature dependence of μ are given in Figure 1 (Curves α , a, β and b). The above theoretical results can be extended to include the case of the semi-conductors containing an admixture of "foreign" colloidal particles. It is shown that, in this case, the concentration \mathcal{R}_1 is expressed by Eq.(26). All the above calculations were carried out for the temperatures and the concentrations at which the number of the colloidal particles was comparatively large and it was therefore possible to assume a uniform potential inside the cathode. In cases where the number of colloidal particles is small, the distribution of the potential inside the cathode, for a given colloidal particle, is variable and can be found by solving a Debye-type equation. If a colloidal particle is in the vicinity of the surface, the variation of the potential along the surface corresponds to the change of the work functions. On the other hand, a donor-type particle leads to the appearance of regions having a reduced work function. An acceptor-type particle at the surface leads to the appearance of regions

Card6/7

SOV/109-3-8-2/18 The Role of Colloidal Particles in the Electric Conductivity and Thermal Emissivity of Semi-conductor Cathodes

> with an increased work function. From this, it is possible to conclude that the presence of colloidal particles may be one of the causes of the spot-like structure of the actual oxide cathodes. The authors express their appreciation to Corresponding Member of the Ac.Sc. Ukrainian SSR, N.D. Morgulis, for his interest in this work and for useful discussions. The authors also thank their senior collaborato. K.B. Tolpygo, for a number of valuable remarks. There are 2 figures, 1 table and 8 references, 7 of which are English and I French.

ASSOCIATION:

Institut fiziki AN USSR, Kiyev (Institute of Physics,

Ac.Sc. Ukrainian SSR, Kiyev)

SUBMITTED:

January 29, 1958

Card7/7

1. Semiconductors--Electrical properties 2. Semiconductors--Elec-

tro transitions 3. Semiconductors--Mathematical analysis

4. Oxide films -- Electrical effects

CIA-RDP86-00513R000720510010-5" APPROVED FOR RELEASE: 06/13/2000

KAPLUNOVA, Ye.I.

Poly-electron interpretation of the hole zone in diamondtype crystals. Fis. twer. tela 1 no.2:177-185 F '59. (HIRA 12:5) (Semiconductors) (Wave mechanics)

REYNBERG, S.A., zasluzhennyy deyatel' nauki professor; ROZENTAL', T.V., kandidat meditsinskikh nauk; KAPIUHOVA-SERGEYEVA, D.E. (Moskva)

CONTROL OF THE PROPERTY OF THE

Roentgenological changes in the lungs in pneumorickettsicsis (Q fever). Klin.med. 34 no.12:44-54 D *56. (MIRA 10:2)

1. Iz pervoy kafedry rentgenologii i radiologii (zav. - prof. S.A. Reynberg) TSentral'nogo instituta usovershenstvovaniya vrachey (na baze Moskovskoy gorodskoy ordena Lenina klinicheskoy bol'nitsy imeni S.P.Botkina)

(Q FEVER, case reports radiography lungs)
(IUEGS, DISEASES, radiography Q fever)

KAPLUNOVICH, L.M.: BESCHETNOVA, A.M.

Continuity in the work of a factory and a district therapeutist.

Zdrav.Ros.Feder. 7 no.3:35-36 Mr '63. (MIRA 16:3)

1. Uchastkovyy terapevt Chelyabinskoy gorodskoy klinicheskoy bol'nitsy (fir Kaplunovich). 2. TSekhovoy terapevt Chelyabinskoy gorodskoy klinicheskoy bol'nitsy (for Reschetnova).

(CHELYABINS—LABOR AND LABORING CLASSES—MEDICAL CARE)

KAPIUNOVICH, P. S.

Application of rutin in homorrhagic retinopathies; preliminary communication. Vest. oft., Moskva 30 no. 6:16-17 Nov.-Dec. 1951. (CIML 21:3)

1. Of the Department of Mye Diseases (Head - Prof. A. B. Katsnel'son), Chelyabinsk Medical Institute.

KAPLUNOVICH, P.S.

USSR/Human and Animal Physiology - The Organs of Sensation.

Abs Jour

: Ref Zhur - Biol., No 2, 1958, 9082 eranie inch

Author Inst

P.A. Kaplunovich

Title

ACTH and Cortisone in the Treatment of Diseases of the

Eyes.

Orig Pub

: Vestn. oftal'mologii, 1956, No 6, 15-19

Abstract

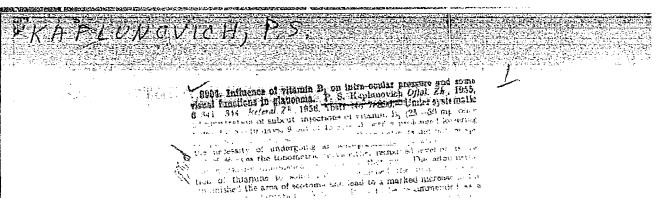
: The paper contains the results obtained with local application of a 1-2.5% suspension of cortisone for 28 patients and general application of ACTH for 24 patients with keratitis and keratoscleritis of different etiology, iridocyclitis and other diseases of the visual organ and its appendages, including sympathetic ophthelmia and allergic processes. Recovery was complete in 26 patients, improvement was seen in 15, and the treatment was without effect in 11. Particularly good results were obtained among patients with phlyctenular and parenchymatous keratitis,

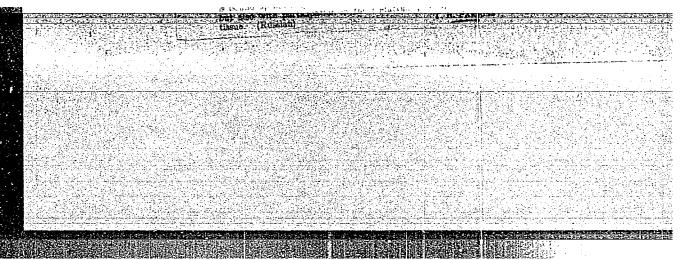
Card 1/2

Chair of Eye Diseises, Chelysbinsk Med Inct.

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PERMANDER RECEIVED AND THE CONTROL OF THE CONTROL O

KAPLUNOVICH, P. S., Candidate Med Sci (diss) -- "The pathogenesis, clinical aspects, and operative treatment of scar xerosis (xerophthalmia)". Stalino, 1959. 20 pp (Stalino State Med Instim A. M. Gor'kiy), 200 copies (KL, No 24, 1959, 150)

BARLEMENT CONTROL OF THE CONTROL OF

KAPLUNOVICH, P.S., assistant

Contrast X-ray photography and tomography of Stensen's duct in connection with its transplantation into the conjunctival sac. Oft. zhur. 14 no.1:37-40 '59. (MIRA 12:6)

1. Kafedra glaznykh bolezney (zav. - prof. A.B. Katsnel'son)
Chelyabinskogo meditsinskogo instituta.

(IACRIMAL ORGANS--SURGERY)(PAROTID GIANDS--TRANSPIANTATION)

KATSNEL'SON, A.B., prof.; KAPLUNOVICH, P.S. assistent

Treatment of hemophthalmia by the injection of cerebrospinal fluid into the vitreous body. Vest.oft. 72 no.5:19-21 S-0 '59.

(MIRA 13:3)

1. Kafedra glaznykh bolezney (saveduyushchiy - prof. A.B. Katsnel'son)

Chelyabinskogo meditsinskogo instituta.

(EYE, dis.)

(VITREOUS BODY)

(CERESBEOSPINAL FLUID)

KATSNEL'SON, A.B.; KAPLUNOVICH, P.S.

Instruments for facilitating the transplantation of Stensen's duct into the conjunctival sack. Med. prom. 14 no. 10:45-47 0 '60. (MIRA 13:10)

1. Chelyabinskiy meditsinskiy institut.
(PAROTID GLANDS—SURGERY)
(EYE, INSTRUMENTS AND APPARATUS FOR)

KAPLUNOVICH, P.S., kand.med.nauk

Clinical aspects and surgical treatment of pulsating exophthalmos. Vest.oft. no.3:35-40 *61. (MIRA 14:9)

1. Kafedra glaznykh bolezney (zav. - prof. A.B. Katsnel'son) Chelyabinskogo meditsinskogo instituta. (EXOPHTHALMOS)

ANIKINA, V.S., ordinator; KAPLUNOVICH, P.S., kand.med.nauk

Transplantation of the vitreous body from a corpse of some eye diseases. Oft. zhur. 16 no.4:204-208 '61. (MIRA 14:7)

1. Iz kafedry glaznykh bolezney (zav. - prof. A.B.Katsnel'son) Chelyabinskogo meditsinskogo institutá i glaznogo otdeleniya Chelyabinskoy oblastnoy klinicheskoy bol'nitsy. (VITREOUS HUMOR—TRANSPIANTATION)

KAPLUNOVICH, Ya.Sh.

On the first and the second canonic form. Trudy UzGU no.78: 105-123 '58. (MIRA 13:6)
(Differential equations)

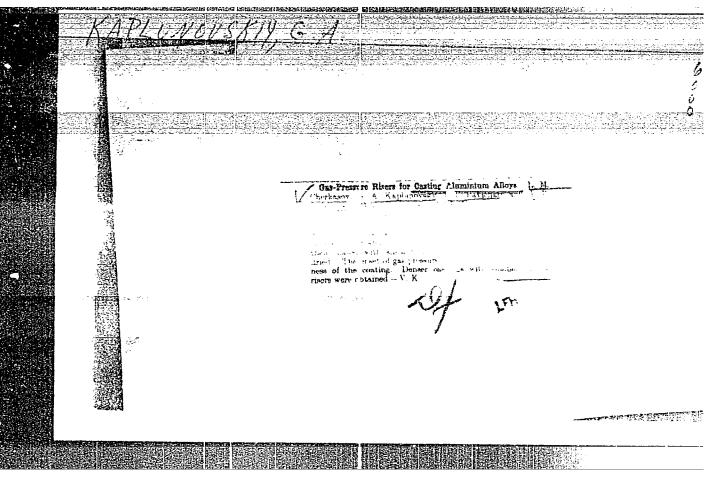
KAPLUNOVICH, Ya.Sh.

Some properties of "isoclines." Izv. vys. ucheb. zav.; mat. no.6: 43-50 '61. (MIRA 15:3)

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KAPLUNOVICH, Ya.Sh. (Tobel'sk)

Some theorems on the distribution of integral curves near a singular point and in the large. Izv.vys.ucheb.zav.; mat. no.5:74-79 165. (MIRA 18:10)



ACCESSION NR: AT4016066

5/2698/63/000/000/0223/0228

AUTHOR: Kukkonen, E. Ya.; Kaplunovskiy, G. A.; Magnitskiy, O. N.; Gulyayev, B. B.

TITLE: Effect of the characteristics of the technological process on the properties of heat-resistant metal castings

SOURCE: Soveshchaniye po teorii liteyny*kh protsessov. 8th, 1962. Mekhanicheskiye svoystva litogo metalla (Mechanical properties of cast metal). Trudy* soveshchani-ya. Moscow, Izd-vo AN SSSR, 1963, 223-228

TOPIC TAGS: refractory metal, heat resistant alloy, alloy casting, molybdenum alloy, tungsten alloy, carbon containing alloy, titanium alloy, cast metal property

ABSTRACT: The lack of industrial flow processes for manufacturing heat-resistant metals has led to insufficient knowledge of the properties of these castings. The authors investigated the influence of the methods of melting, casting parameters and other features on the properties of alloy castings containing titanium and molybdenum. The metals were cast in a DVP-15 vacuum electric oven with an electric arc in a carbon crucible. Parts are currently made of molybdenum by plastic bending of castings obtained by electric arc fusion of special packs of molybdenum and crystallization in water-cooled copper molds. Melting of molybdenum with a tungsten electrode and casting in centrifugal copper molds ensures the highest Card 1/2 guality of dense molybdenum castings with fine structures. Orig. art. has: 6 figures and 3 tables.

GULYAYEV, B.B.; MACNITSKIY, O.N.; DEMIDOVA, A.A.; Prinimali uchastiye: KAPLUNOVSKIY, G.A.; KUKKONEN, E.Ya.; BUTALOV, L.V., kand. tekhn. nauk, retsenzent

CONTROL OF THE CONTROL OF THE PROPERTY OF THE

[Castings of high-melting metals] Lit'e iz mugoplavkikh metallov. Moskva, Izd-vo "Mashinostroenie," 1964. 291 p.
(MIRA 17:5)

L 19740-65 EMP(e)/EMP(n)/EMP(v)/EMP(t)/EMP(b) IJP(c) JD/MLK

ACCESSION NR: AT4048343 \$/0000/64/000/000/0150/0153

AUTHOR: Kukkonen, E. Ya.; Kaplunovskiy, G. A.; Demidova, A. A.; Magnitskiy, O. N.

TITLE: The effect of gases on the quality of titanium alloy castings

SOURCE: AN SSSR. Komissiya po tekhnologii mashinostroyeniya. Gazy* v litom metalle (Gases in cast metals). Moscow, Izd-vo Nauka, 1964, 150-153

TOPIC TAGS: cast titanium, titanium alloy casting, blowhole formation, gas saturation, titanium porosity, oxygen adsorption, nitrogen adsorption, hydrogen adsorption, mold material, mold temperature

ABSTRACT: The authors note that the principal requirement in the production of titanium castings is to safeguard the metal against contamination, particularly by oxygen, hydrogen and nitrogen. This requirement predetermines the basic specifications of the entire technological process of the production of titanium allog castings. As mold materials only the most chemically stable oxides can be used; zirconium dioxide, electrocorundum and magnesite. The binding materials must contain a minimum amount of those components which react actively with titanium. The metal is melted in a vacuum in a cooled crucible with a lining of the same allogable that which is being melted. Particularly attention was paid in this article to:

L 19740-65 ACCESSION NR: AT4048343 the gas content and the mechanical properties of the metal of the castings; 2) the effect of the metal of the consumed electrode and of other factors on the on elecment of blowholes in thin-walled titanium castings. The effect of the acterials was itsplead to the masks of case may prepared by the second with the law shrinks of the with his trace to the control of the second state of the s from the point of a new too nemal coxyde contamination at the conbe zirconium dioxide and me ted magnesile. The higher the temperation and tal - mold topingar. The weet prepaise the interaction, the most gen content in the casting metal as the temperature of molds of different or rain tory materia:s was in reased being extrimely significant. The a rec-250C as the optimal move temperature. The distribution of pases throughout in section of the casting was investigated by measuring the microhardness and in discovery that the surface layers of the casting showed the highest degree of contamination. A study was made of the effect of different technological factors on the susceptibility of the casting to the development of blowholes by means of casting disks of varying thickness, with the disks so obtained checked for the presence of blowholes by X-ray ... Thin-walled castings were found to be especially vulnerable to this type of gar-originated surface flaw. This statement is divelop-ed in detail in the article. A comparison of disks obtained from metal smelted in a vacuum at 1-10-1 and at 1-10 3 mm Hg or from metal which had undergone special

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vacuum degasification indicated that the basic charge has a considerable effect on the formation of blowholes in the castings: with degasified metal, the quantity of blowholes decreases noticeably. In disks without blowholes, defects in the form of shrinkage porosity are observed, while this type of defect is absent when blowholes are present. The authors also state that the number of blowholes in the casting depends on the configuration of the casting and the method employed in filling the mold. Those factors were found to be favorable which promote an upward direction in the filling of the mold and the crystallization of the metal. Still further details are discussed in the article. "I. P. Bashkov took part in the work." Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: none

SUBMITTED: 20May64

ENCL: OD

SUB CODE: MM

NO REF SOV: GOO

OTHER: 000

Cord 3/3

L-19758-65 Evr(m)/Eup(t)/Eup(d) IJP(d) JD/JG/ MLK

ACCESSION NR: AT4048345

8/0000/64/000/000/0167/0171

 \mathcal{B}

AUTHOR: Kaplunovskiy, G. A.; Kukkonen, E. Ya.; Demidova, A. A.; Magnitskiy, O. N.; Gulyayev, B. B. (Doctor of technical sciences, Professor)

TITLE: The effect of a gaseous medium during melting and teeming on the quality of cast chromium

SOURCE: AN SSSR. Komissiya po tekhnologii mashinostroyeniya. Gazy* v litom metalle (Gases in cast Metals). Moscow, Izd-vo Nauka, 1964, 167-171

TOPIC TAGS: cast chromium, gas saturation, chromium melting, chromium teeming, chromium brittleness, oxygen adsorption, hydrogen adsorption, nitrogen adsorption, rare earth admixture

ABSTRACT: After noting that the principle cause of chromium brittleness is gaseous impurities, the authors report the results of studies aimed at selecting the optimal technological conditions for the smelting of chromium, from the point of view of ensuring a minimum gas content in the cast metal. The metal was smelted in an OKB-495m high-vacuum induction furnace in a rammed crucible of zirconium dioxide. As the basic metal refined chromium was employed with the following composition: 0,024-0.000

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0.002-0.050% N2. The experimental melts were made in an inert argon atmosphere, since due to the high chromium vapor pressure at the melting temperature (63.5 mm Hg), it is not possible to melt the metal in a vacuum. For the purpose of decomposing the nitrides and removing the adsorbed gases, the chromium was aged at 750, 1200 and 1400C for 30 minutes at each temperature, and also it the melted state. The chromium was poured into a metal mold in order to exclude any effect of the mold material on the ground.

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voltages were also determined during the divelopment of specific sold and the process of melting 5 kg of chromium lasted up to 5 minutes. A table is given showing the content of oxygen and nitrogen in the cast chromium as a function of temperature and duration of exposure. Experiments as found to increase somewhat, in some the base content, together with the time of aging. The nitrogen center aging for 30 minutes at 750-1200C. Experiments showed that the optimal of or chromium is 1200C and 30 minutes. In the cast metal the hydrogen content 0,0004-0,0009%. It was also found that, all other conditions being equal, the content non-metallic admixtures of the oxide type in approximately half as high (0.361) the fourth melting as after the first (0.66%). For the purpose of studying the content the material of the mold on the gas-saturation of the chromium, samples were poured into

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molds of different refractory materials, and a table is given in the article illustrating the dependence of the oxygen content in the castings on the mold material used. The authors indicate that the microhardness of the chromium is not changed by the mold material use of rare-earth elements to enhance the nechanical properties of cast coursed in some detail. Data are presented which indicate that the inclusions in cast chromium without admixtures reaches 0.661%, while are non-metallic inclusions showed the presence of oxides of the Cr_2O_3 type and increase earth elements. In this way, the rare-earth elements are found to have a refining effect. The article concludes with a brief discussion of a special study which was made determine the optimal argon pressure for high-quality stock. The authors show make the structure of chromium, smelted and teemed at an argon pressure of 600 mm Hz. Structure of chromium poured at 300, 60-90, and 1.2 mm. According to some writers, a fine-grain structure reduces the temperature threshold of chromium brittleness.

ASSOCIATION: None

SUBMITTED: 20May64

APPROVED FOR RELEASE: 06/13/2000

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 000 particles and the second

Card 3/3

CIA-RDP86-00513R000720510010-5"

KAPLUNOVSKIY, P. S.

KAPLUNOVSKIY, P. S.: "Natural reseeding in the beech forests of Trans-carpathia." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner Agricultural Inst imeni V. V. Dokuchayev. Khar'-kov, 1956. (Dissertation for the Degree of Candidate in Agricultural

Source: Knizhnaya letopis' No. 28 1956 Moscow

USSR/Forestry - Forest Cultivation.

K-5

Abs Jour

: Ref Zhur - Biol., No 9, 1958, 39111

Author

Molotkov, P.I., Kaplunovskiy, P.S.

Inst

Title

: From the Experiment of Foresters in the Carpathians and

in Podolia.

Orig Pub

: Lesn. khoz. 1957, No 7, 79-82.

Abstract

: Experiments implying the successful growth of forest plantings in various leskhox' of the oblast are described. Rational methods of agronomic technique of crops on stony deposits and on fresh fellings (without soil preparation and subsequent care) are described.

Successful results of the passage method for the recons-

truction of plantations of poor quality are noted.

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- 24 -

CIA-RDP86-00513R000720510010-5"

(KAPLUNOVSKIY, P.S.

Blooming in autumn. Priroda 49 no.9:124 S '60. (MIRA 13:10)

 Karpatskaya lesnaya opytnaya stantsiya, Mukachevo. (Carpathian Mountain Region-Plants, Flowering of)

KAPLUNOVSKIY, P.S., kand.sek skokhoz.nauk

Fall flowering of the horse chestnut. Priroda 50 no.9:126-127.5 '61. (MIRA 14:8)

1. Karpatskaya lesnaya opytnaya stantsiya (Mukachevo). (Horse chestnut)

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MOLOTKOV, P.I.; KAPLUNOVSKIY, P.S.; GAVRUSEVICH, A.N.; MOLOTKOVA, I.I.; PASTERNAK, P.S.; CHURATYY, O.V.; POLYANOVSKIY, A.A., otv. za vypusk; PANCHENKO, V., red.; LUCHKIV, M., tekhn. red.

STREET OF THE PROPERTY OF THE

[Mountain forest types] Tipy gornykh lesov. Uzhgorod, Zakarpatskoe obl. knizhno-gazetnoe izd-vo, 1961. 79 p. (MIRA 15:7) (Transcarpathia-Forests and forestry)